

10. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein the fixation device includes at least a first anchoring ring and a
second anchoring ring, and the sensor support is coupled between the first anchoring ring and
the second anchoring ring.

15. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein the sensor has at least one notch-like depression disposed in its
periphery and wherein at least one portion of the sensor support is positioned withing the at
least one notch-like depression.

16. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein the sensor has a groove-like depression at at least one portion of
its periphery and wherein at least one portion of the sensor support is positioned within the
groove-like depression.

17. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein the sensor has a lip-like extension at at least one portion of its
periphery and wherein at least one portion of the lip-like extension extends beyond the inner-
most portion of the sensor support.

18. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
C3 receiving the sensor, wherein the sensor has at least one protrusion disposed on its periphery
and wherein at least one portion of the at least one protrusion extends beyond the inner-most
portion of the sensor support.

19. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device forming a perimeter having a discernable width, the fixation device
having a first end and a second end; and
at least one sensor carrier coupled to the first end of the fixation device, the at least
one sensor carrier extending generally parallel to the perimeter in a direction away from the
second end and being located outside of an interior of the fixation device, wherein the sensor
is supported by the sensor carrier.

24. (Amended) A method for fixation of a sensor in a bodily lumen, comprising the
steps of:

placing the sensor onto a non-solder surface of a sensor support coupled to a fixation
device;

C4 inserting the fixation device into the bodily lumen; and
securing the fixation device within the bodily lumen.

25. (Amended) A method for fixation of a sensor in a bodily lumen, comprising the
steps of:

placing the sensor into a sensor support coupled to a fixation device in order to form a
mechanical coupling between the sensor and the sensor support;

inserting the fixation device into the bodily lumen; and
securing the fixation device within the bodily lumen.

33. (Amended) A method for fixation of a sensor in a bodily lumen, comprising the steps of:

placing the sensor in a sensor support coupled to a fixation device;

inserting the fixation device into a bodily lumen;

securing the fixation device within the bodily lumen; and

coupling the sensor to the sensor support, wherein the coupling includes positioning at

least one portion of the sensor support in at least one groove-like depression in the sensor.

34. (Amended) A method for fixation of a sensor in a bodily lumen, comprising the steps of:

placing the sensor in a sensor support coupled to a fixation device;

inserting the fixation device into a bodily lumen;

securing the fixation device within the bodily lumen; and

coupling the sensor to the sensor support, wherein the coupling includes positioning at

least one portion of the sensor support in at least one groove-like depression in the sensor.

38. (Amended) A method for fixation of a sensor in a bodily lumen, the sensor being incapable of having a perimeter thereof expanded to match that of the bodily lumen, the method comprising the steps of:

inserting the sensor into a bodily lumen; and

coupling the sensor to a section of the bodily lumen.

71. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:

a fixation device; and

a sensor support coupled to the fixation device and including a surface for

receiving the sensor, wherein:

a material of the sensor support is the same as a material of the fixation device.

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76. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein:

the sensor support has a shape that is unaffected by a joining to the sensor.

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77. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein:

the sensor support has a predefined and constant shape.

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78. (Amended) Apparatus for fixation of a sensor in a bodily lumen, comprising:
a fixation device; and
a sensor support coupled to the fixation device and including a surface for
receiving the sensor, wherein:

the sensor support is formed of a non-fluid material.

Please add the following new claims:

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79. (New) Apparatus for fixation of a sensor in a bodily lumen,
comprising:

a fixation device; and
a sensor support coupled to the fixation device and to which the sensor is
mechanically coupled.

80. (New) Apparatus for fixation of a sensor in a bodily lumen,
comprising:

a fixation device; and
means coupled to the fixation device and for supporting the sensor.